

Town of Nantucket

TOWN OF NANTUCKET INVITATION FOR BIDS CONSTRUCTION OF POLPIS HARBOR RETAINING WALL

The Town of Nantucket, through its Board of Selectmen, invites qualified bidders to submit bids for the construction of a new timber pile supported retaining wall and the demolition of portions of an existing retaining wall in Polpis Harbor, Nantucket, MA.

I. GENERAL INFORMATION.

- 1) Bids will be accepted at the Town of Nantucket, Selectmen's Office, 16 Broad Street, Nantucket, MA 02554, until 2 pm, Wednesday, October 11, 2006, and publicly opened forthwith. Two copies of the bid are required.
- 2) The bid envelope must be sealed and clearly marked: *Bid for Polpis Harbor Retaining Wall Construction*
- 3) 2. Bids are subject to MGL c. 30 §39M and to prevailing wage rates.
- 4) Award date. Award will be made within forty-five (45) days after bid opening unless otherwise stated in the specifications or the time for award is extended by mutual consent of all parties. All bids submitted shall be valid for a minimum period of forty-five (45) calendar days following the date established for acceptance.
- 5) If any changes are made to this IFB, an addendum will be issued. Addenda will be mailed or faxed to all bidders on record as having requested the IFB.
- 6) Questions concerning this IFB must be submitted in writing to: Diane O'Neil, Board of Selectmen, 16 Broad Street, Nantucket, MA 02554, email: doneil@nantucket-ma.gov before 2 PM, Wednesday, October 4, 2006. Questions may be delivered, mailed, emailed, or faxed. Written responses will be mailed, emailed, or faxed to all bidders on record as having requested the IFB.
- 7) Bids may be modified, corrected or withdrawn only by written correspondence received by the Town of Nantucket prior to the time and date set for the bid opening. Bid modifications must be submitted in a sealed envelope clearly labeled "Modification No. _____" and must reference the original IFB.
- 8) After the bid opening, a bidder may not change any provision of the bid in a manner prejudicial to the interests of the Town of Nantucket or fair competition. Minor informalities will be waived or the bidder will be allowed to correct them. If a mistake and the intended bid are clearly evident on the face of the bid document, the mistake will be corrected to reflect the intended bid, and the bidder will be notified in writing; the bidder may not withdraw the bid. A bidder may withdraw a bid if a mistake is clearly evident on the face of the bid, but the intended correct bid is not similarly evident.
- 9) The Town of Nantucket reserves the right to reject any and all bids and to waive any informality in bids

- received whenever such rejection or waiver is in its best interest.
- 10) The Town of Nantucket will not be responsible for any expenses incurred in preparing and submitting bids. All bids shall become the property of the Town of Nantucket.
- 11) Responders must be willing to enter into the Town of Nantucket's standard form of contract that will include the scope of services description of this IFB.
- 12) The bid, and any subsequent contract for the services, is hereby issued in accordance with applicable Massachusetts General Laws. The selected bidder shall be expected to comply with all applicable state and federal laws in performance of service.
- 13) Bids received prior to the date of opening will be securely kept, unopened. No responsibility will attach to an officer or person for the premature opening of a bid not properly addressed and identified.
- 14) Any bids received after the advertised date and time for opening will be returned to the responder unopened.
- 15) Purchases by the Town of Nantucket are exempt from federal, state and municipal sales and/or excise taxes.
- 16) The Tax Compliance Certification and the Certificate of Non-Collusion must be included with the bid response. The bid must be signed by the authorized individual(s).
- 17) Unexpected closures. If, at the time of the scheduled bid opening, Town Hall is closed due to uncontrolled events such as fire, snow, ice, wind or building evacuation, the bid opening will be postponed until 3:00 PM on the next normal business day. Bids will be accepted until that date and time.
- 18) The Town of Nantucket is an Affirmative Action/Equal Opportunity Employer. The Town encourages bids from qualified MBE/DBE/WBE firms.
- 19) Bidders should be aware that many overnight mailing services do not guarantee service to Nantucket.
- 20) Bidders must submit a five percent (5%) bid deposit with their bids. The bid deposit may be in the form of a certified, treasurer's or cashier's check from a responsible bank or trust company payable to the Town of Nantucket, cash, or a bid bond from a surety company.
- 21) The winning bidder or Contractor must furnish a payment bond from a surety company in the amount of at least 50% of the contract price to guarantee payment to materials suppliers and/or subcontractors in the event the general contractor fails to pay the material suppliers and/or subcontractors.
- 22) **PREVAILING WAGE** Pursuant to Massachusetts General Laws, chapter 149, sections 26 and 27, the Division of Occupational Safety (formerly the Department of Labor and Industries) has determined the <u>Prevailing Wage Rates</u> for this work. The enclosed rates apply only to this work. The Prevailing Wage shall become part of the contract signed between the successful bidder and the awarding authority or the contract is invalid. Prevailing Wages must be paid to all persons employed on the public works project, regardless of whether they are employed by the successful bidder or a subcontractor. The wage rates issued for each project shall be paid for the entire project. Payroll records must be kept by the successful bidder for all persons employed on the project. A separate Statement of Compliance must be submitted

to the Division of Occupational Safety by every employer, including all prime contractors and subcontractors, when its portion of the work is completed. The enclosed form entitled "Weekly Payroll Records Report and Statement of Compliance" clearly details these requirements. A certified payroll must be submitted to the Board of Selectmen office for each week work is performed for the Town under this contract.

- 23) Contractor must comply with: Chapter 306 of the Acts of 2004 § 1. (3) who shall certify that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and SECTION 2 (3) that all employees to be employed in the work subject to this bid have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration. (b) Any employee found on a worksite subject to this section without documentation of successful completion of a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration shall be subject to immediate removal. SECTION 5 This act shall take effect on July 1, 2006.
- 24) Commencement of Work After the contract is awarded and executed, the successful bidder shall be expected to commence work on the base bid immediately and proceed in a timely and efficient manner until project completion and acceptance.

II BID SUBMISSION REQUIREMENTS.

- 1. The Tax Compliance Certification must be included with the bid response. The bid must be signed by the authorized individual(s).
- 2. A Certificate of Non Collusion must be submitted with the bid response.
- 3. Bidders must submit a bid deposit of five percent (5%) of the amount of the bid, with the bid. Bid deposit may be in the form of a certified check; a bank, treasurers or cashier's check; cash; or a bond from a surety company.
- 4. Bid Price Form.
- 5. Reference list per Section V of this IFB.

III Service Description

Supply labor, equipment, and materials for the demolition of portions of a deteriorated timber pile retaining wall and for the construction of a new 142 ft long timber pile supported retaining wall located in Polpis Harbor, Nantucket, MA in accordance with the plans prepared by Childs Engineering, Inc. and the written specifications contained herein as Attachment A

Inspections: The Town of Nantucket Harbor Master shall be available daily to inspect work as it progresses.

Permits: The Town of Nantucket will provide all permits necessary.

Completion of work: Contractor shall complete work by April 1, 2007.

Bonding: The successful bidder must provide a fifty percent (50%) payment bond from a surety company licensed in Massachusetts payable to the Town of Nantucket within ten (10) days of the notification of the contract award.

IV Quality Requirement

- 1. Bidder must provide all of the items described in Section III and comply with all of the bid submission requirements listed in Section II.
- 2. Bidder must have been in business of marine construction for a minimum of seven years.

V. References.

1. Bidders must provide a complete list of all customers from whom it performed a similar service, costing over \$100,000 in the past three years. Reference information must include Company/Government Name, Contact Person, Phone Number, Fax Number, Project Description, and Date(s) of Construction.

Poor references may be a basis for determining that a bidder is not responsible. Reference questions will include but may not be limited to vehicle quality and durability, timely delivery, customer service and general customer satisfaction.

VI Rule for Award

One contract will be awarded to the responsive and responsible bidder offering the lowest price for labor and materials combined.

VII Basis of Compensation

Fixed price contract
There will be no reimbursable expenses.

CERTIFICATE OF NON-COLLUSION

The undersigned certifies under penalties of perjury that this bid or proposal has been made and submitted in good faith and without collusion or fraud with any person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club, or other organization, entity, or group of individuals.

Signature of person signing bid or proposa	al
Printed Name and Title,	Name of Business
Date	

TAX COMPLIANCE CERTIFICATION

· · · · · · · · · · · · · · · · · · ·	relating to taxes, reporting of employees and contractors,
Federal Employer ID Number	Name of Corporation
Tousial Employer 15 Humbol	
Printed Name of President	President's Signature
	Date

BID PRICE FORM POLPIS HARBOR RETAINING WALL CONSTRUCTION

To the Town of Nantucket:

A. The Undersigned proposes to furnish all labor and materials required for the construction of a new retaining wall and the demolition of portion of existing retaining wall in Nantucket, Massachusetts, in accordance with the accompanying plans and specifications prepared by Child's Engineering Inc. for the contract price specified below, subject to additions and deductions according to the terms of the specifications.

Bid Price must include all labor, material, and equipment costs and all other expenses. There will be no reimbursable expenses allowed in the contract.

No.	Brief Description of Work	Amount
1	Demolition of existing retaining wall, as specified	\$
2	Construction of new retaining wall, as specified	\$
	Total Bid Price	\$
Total E Amou Words	nt in	
Signature	of Bidder Date	
Printed N	ame of Bidder	
Business	Address	
City, State	e, Zip Phone	

ATTACHMENT A

WRITTEN SPECIFICATIONS

Project: Polpis Harbor Retaining Wall

SECTION 06310 TIMBER TREATMENT (CCA)

PART 1 GENERAL

1.01 DESCRIPTION

A. Provide all labor, materials, equipment and supervision necessary to complete the work specified in this Section.

1.02 SCOPE OF WORK

- A. Scope of work includes:
 - 1. The treatment of timber members with a wood preservative.
 - 2. The field application of all timber subject to field cutting and drilling.

1.03 RELATED WORK

- A. Related work specified elsewhere:
 - 1. Timber under HEAVY TIMBER CONSTRUCTION, SECTION 06310.
 - 2. Piles under ROUND TIMBER PILES, SECTION 02311.

1.04 QUALITY ASSURANCE

- A. Except as noted all work shall conform to the latest editions of the following codes, specifications and standards.
 - 1. American Society for Testing and Materials (ASTM) D-25.
 - 2. American Wood Preservatives Association (AWPA).

PART 2 PRODUCTS

2.01 MATERIALS

- A. All new Southern Yellow Pine and Douglas Fir timber members shall be treated with chromated copper arsenate (CCA) or anmonical copper zinc arsenate (ACZA) in accordance with AWPA Standard P5 and C2 for material subject to marine borer exposure and shall obtain a green tint due to the treatment.
- B. All new Southern Yellow Pine and Douglas Fir piles shall be treated with chromated copper arsenate (CCA) or animonical copper zinc arsenate (ACZA) in accordance with AWPA Standards P5 and C4 for marine piles and shall obtain a green tint due to the treatment.

PART 3 EXECUTION

- 3.01 Prior to treatment all dimension lumber shall be kiln-dried. Conditioning by heating is not permitted.
- 3.02 All timber piles and timber sheeting shall be treated to a retention of 2.5 pounds per cubic foot of chromated copper arsenate or animonical copper zinc arsenate.
- 3.03 All other timber and lumber shall be treated to a retention of 1.5 pounds per cubic foot of chromated copper arsenate.
- 3.04 Sealing compound for treatment of field cuts and drilled holes shall be two (2) coats of copper naphthenate with a minimum 2% copper meeting AWPA standard M4.

SECTION 02110 DEMOLITION

PART 1 GENERAL 1.01 DESCRIPTION

A. Provide all labor, materials, equipment and supervision necessary to complete the work specified in this Section.

1.02 SCOPE OF WORK

- A. Includes, but is not necessarily limited to the following:
 - 1. Removal and disposal of:
 - a. Cut off timber piles as designated
 - b. Timber sheeting and wales as designated by the drawings
 - c. Miscellaneous hardware, steel angles, pieces of timber, rubble and other material which are encountered during the course of work which interferes with work specified to be done.

1.03 SUBMITTALS

- A. Contractor shall submit a detailed demolition plan including methods and means for collecting timber and fill material to prevent entry into the water.
- B. Submit disposal sites for all materials.
- C. Submit disposal slips for each load of material indicating date, time, location, weight and type of material.

PART 2 PRODUCTS

2.01 No materials are to be supplied under this specification.

PART 3 EXECUTION

- 3.01 Bidders shall examine the site and make their own estimates of the types and quantities of demolition, which will be required to fulfill the Contract requirements.
- 3.02 All materials removed during demolition designated for disposal shall become the property of the Contractor unless otherwise noted.
- 3.03 All materials removed during demolition except that which is to be reused shall be disposed of off the site in conformance with all municipal, state and federal regulations.
- During over or in water demolition activities the area of the demolition work will be enclosed with a floating boom approved by the Owner. Materials retained by the boom shall be removed on a daily basis.
- 3.05 Remove and transport debris and rubbish in a manner that will prevent spillage on pavements and streets or adjacent areas. Clean up spillage and debris daily.
- 3.06 Burning debris or materials on site is not permitted

SECTION 02311 ROUND TIMBER PILES

PART 1 - GENERAL

1.01 DESCRIPTION

A. Provide all labor, materials, equipment and supervision necessary to complete work specified in this Section.

1.02 SCOPE OF WORK

A. Scope of work includes, but is not necessarily limited to, furnishing and installing timber piles.

1.03 RFI ATFD WORK

- A. Related work specified elsewhere includes:
 - Bolts under HEAVY TIMBER CONSTRUCTION, SECTION 06130.
 - 2. Pile treatment under TIMBER TREATMENT (CCA), SECTION 06310.

1.04 QUALITY ASSURANCE

- A. Except as noted, work shall conform to the latest editions of the following codes, specifications and standards.
 - American Society for Testing and Materials (ASTM), Specifications: D25 Round Timber Piles.
 - 2. American Institute of Timber Construction (AITC).

1.05 SUBMITTALS

- A. Submit for approval by Owner proposals for following items:
- 1. Driving plan and schedule for installation of piles.
- 2. Method of installation of piles including size and type of pile hammer.
- 3. Templates and falsework to be used for support and layout of piles during driving.
- B. AWPA quality stamp on each new treated pile.
- C. Certification of timber pile species.

1.06 PRODUCT HANDLING

A. Piles shall be handled with care to prevent damage. Damaged piles will be rejected and replaced at no additional cost to the Owner. Piles shall be stored with a space beneath them and situated to prevent being exposed to standing water.

PART 2 PRODUCTS

2.01 MATERIALS

A. End-bearing piles: clean-peeled and treated West coast Douglas Fir or Southern Yellow Pine, meeting ASTM D25-91. Minimum butt circumference measured at 3 feet from the butt end shall be 44 inches.

PART 3 EXECUTION

3.01 DRIVING EQUIPMENT

- A. Pile hammers: Air, steam or diesel-powered, of a type approved by the Owner. The hammer furnished shall have a capacity at least equal to the hammer manufacturer's recommendation for the total weight of pile and character of subsurface material to be encountered. The minimum driving energy of the hammer shall be 6500 foot-pounds. Diesel-powered hammers shall be operated at the rate recommended by the manufacturer throughout the entire driving period. Sufficient pressure shall be maintained at the hammer so that: (1) for double-acting hammer, the number of blows per minute during and at the completion of driving of a pile is equal approximately to that at which the hammer is rated; (2) for single-acting hammer, there is a full upward stroke of the ram; and (3) for differential-type hammer, there is a slight rise of the hammer base during each upward stroke.
- B. Driving helmets and cushion blocks: Use a driving helmet or cap including a cushion block or cap block of a design approved by the Owner between the top of the pile and the ram to prevent impact damage to the pile. The driving helmet or cap and cushion block combination shall be capable of protecting the head of the pile, minimizing energy absorption, and transmitting hammer energy uniformly and consistently during the entire driving period. The driving helmet or cap shall fit snugly on the top of the pile so that the energy transmitted to the pile is uniformly distributed over the entire surface of the pile head. Demonstrate to the Owner that the equipment to be used on the project performs the above functions. The cushion block may be a solid or laminated softwood block with the grain parallel to the pile axis and enclosed in a close-fitting steel housing. The thickness of block shall be suitable for the length of pile to be driven and the character of subsurface material to be encountered. Generally, thicker blocks are required for longer piles and softer subsurface material. Replace cushion block if it has been damaged, split, highly compressed, charred or burned or has become spongy or deteriorated in any manner. Under no circumstances will the use of small wood blocks, wood chips, rope or other material permitting excessive loss of hammer energy be permitted.

3.02 HANDLING

A. Inspect piles in the leads, and where the protective shell or treated wood is impaired, between cutoff and a point which will be not less than 10 feet below the ground, the piles shall be repaired as specified under Timber Treatment unless the pile is damaged to such an extent that it is rejected. Rejected piles will be replaced at no additional cost to the Owner. Support pile laterally during driving, but not unduly restrained from rotation in the leads. Where pile orientation is essential, take special care to maintain the orientation during driving. Take special care in supporting battered piles to prevent excess bending stresses in the pile. When necessary, place collars around the pile head to prevent brooming. Cant hooks shall not be used in handling treated piles. Cut piles by sawing or other means approved by the Owner. Holes for rebar shall be of a size that will ensure a driving fit.

3.03 DRIVING PILES:

- A. Drive pile to Elevation -24 MLLW without interruption.
- B. Tolerances in Driving: Butts shall be within 4 inches of the location indicated. Manipulation of piles to force them into position will not be permitted. Check all piles for heave. Redrive heaved piles to the required elevation. Piles damaged, mis-located, or driven out of alignment shall be replaced or additional piles driven as directed at no additional cost to the Owner.

3.04 INSTALLATION

A. All piles shall be marked at a given distance from the bottom, which will show above the waterline after driving, so that the bottom elevation of each pile and its relation with adjacent piles can be recorded.

3.04 RECORDS

A. A complete and accurate record of each pile shall be furnished by the Contractor. The record shall indicate the pile location, diameter, length, hammer (make and model), number of blows per 6" for the final 36 inches of penetration, all other pertinent information.

SECTION 06130 HEAVY TIMBER CONSTRUCTION

PART 1 GENERAL 1.01 DESCRIPTION

A. Provide all labor, materials, equipment and supervision necessary to complete the specified work in this Section.

1.02 SCOPE OF WORK

- A. Scope of work includes but is not necessarily limited to the following:
 - 1. Construction of retaining wall

1.03 RELATED WORK

- A. Work specified elsewhere:
 - 1. Demolition of existing timber retaining wall under DEMOLITION, SECTION 02110.
 - 2. Installation of new timber piles under ROUND TIMBER PILES, SECTION 02311.
 - 3. Treatment of timber members under TIMBER TREATMENT, SECTION 06310.

1.04 QUALITY ASSURANCE

- A. Except as noted all work shall conform to the latest editions of the following codes, specifications and standards:
 - 1. Southern Pine Inspection Bureau (SPIB)
 - 2. West Coast Lumber Inspection Bureau (WCLIB)
 - 3. Western Wood Products Association (WWPA)
 - 4. National Forest Products Association (NFPA)
 - 5. American Society for Testing and Materials (ASTM)
 - 6. Commonwealth of Massachusetts State Building Code (CMSBC)
 - 7. American Institute of Timber Construction (AITC)

1.05 SUBMITTALS

- A. AWPA quality certification on all treated timber.
- B. Certification of timber species.
- C. Certificate of Compliance for hardware and galvanizing.

1.06 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. All timber shall be stored in stacks such that there is an air space beneath the material and situated to prevent the timber from being exposed to standing water.
- B. The material shall be stored on site in an area that will be designated by the Owner.
- C. Timber shall be handled in an approved manner such that the material will not be damaged.

PART 2 PRODUCTS

2.01 MATERIALS

- A. All timber to be used for sheeting, wales and splice blocks shall be No. 2 Southern Pine as graded by SPIB and with design values per NFPA National Design Specification or the equivalent.
- B. All timber shall be new and dimensional (S4S) as indicated by nominal sizes on contract drawings.

C. Hardware

Bolts and nuts shall conform to ASTM A307. Provide washers, cast-iron ogee, malleable iron, or plate or cut washers where indicated. Provide bolts with washers under nut and head. Hot dip galvanize all hardware.

Zinc Coating
 Galvanize steel specified or indicated by the hot-dip process in accordance with ASTM A123 and ASTM A153 as applicable.

PART 3 EXECUTION 3.01 PREPARATION

A. Prior to installation all demolition affecting the new work shall have been completed.

3.02 INSTALLATION

- A. Coat ends of field cut members, and holes cut or drilled in timber as specified under TIMBER TREATMENT, SECTION 06310.
- B. Joints are to be square, tight and well-fastened with all members assembled in accordance with the Contract Drawings.
- C. Holes for bolts shall be drilled the same size as the bolt after galvanizing. Holes shall be swabbed with 2 coats of sealing compound as specified herein before installing the bolts.
- D. Bolts shall be tightened to provide a solid connection. No more than 1 washer shall be installed under the bolt head or nut. Bolt threads shall project no more than 2" beyond the nut.
- E. All timber shall be cut and fit in such a manner as to have full bearing over the entire contact surface.
- F. Repair and recoat zinc coating which ha been field or shop cut, burned by welding, abraded or otherwise damaged to such an extent as to expose the base metal. Thoroughly clean the damaged area by wire brushing and remove all traces of welding flux and loose or cracked zinc coating prior to painting. Paint cleaned area with two coats of zinc oxide-zinc dust paint.



DIVISION OF OCCUPATIONAL SAFETY

Prevailing Wage Rates

As determined by the Commissioner under the provisions of the Massachusetts General Laws, Chapter 149, Sections 26 to 27H



JOHN S. ZIEMBA
Director
ROBERT J. PREZIOSO

Awarding Authority: TOWN OF NANTUCKET

Contract Number: 2006-21 City/Town: NANTUCKET

Description Of Work: POLPIS HARBOR TIMBER PILE RETAINING WALL WORKS

Job Location: POLPIS ROAD

Classification		Effect	ive Dates a	and Total	Rates			
(2 AXLE) DRIVER - EQUIPMENT	8/1/2006	\$38.230	12/1/2006	\$38.930	6/1/2007	\$39.430	8/1/2007	\$39.930
	12/1/2007	\$40.630	6/1/2008	\$41.130	8/1/2008	\$41.630	12/1/2008	\$42.330
(3 AXLE) DRIVER - EQUIPMENT	8/1/2006	\$38.300	12/1/2006	\$39.000	6/1/2007	\$39.500	8/1/2007	\$40.000
	12/1/2007	\$40.700	6/1/2008	\$41.200	8/1/2008	\$41.700	12/1/2008	\$42.400
(4 & 5 AXLE) DRIVER - EQUIPMENT	8/1/2006	\$38.420	12/1/2006	\$39.120	6/1/2007	\$39.620	8/1/2007	\$40.120
	12/1/2007	\$40.820	6/1/2008	\$41.320	8/1/2008	\$41.820	12/1/2008	\$42.520
ADS/SUBMERSIBLE PILOT	8/1/2006	\$89.860	8/1/2007	\$98.260				
AIRTRACK OPERATOR	6/1/2006	\$37.000	12/1/2006	\$38.100	6/1/2007	\$39.250	12/1/2007	\$40.350
	5/31/2008	\$40.850						
ASBESTOS WORKER (PIPES & TANKS)	6/1/2006	\$32.550						
ASPHALT RAKER	6/1/2006	\$36.500	12/1/2006	\$37.600	6/1/2007	\$38.750	12/1/2007	\$39.850
	5/31/2008	\$40.350						
ASPHALT/CONCRETE/CRUSHER PLANT-ON SITE	6/1/2006	\$50.890	12/1/2006	\$52.290	6/1/2007	\$53.290	12/1/2007	\$54.690
BACKHOE/FRONT-END LOADER	6/1/2006	\$50.890	12/1/2006	\$52.290	6/1/2007	\$53.290	12/1/2007	\$54.690
BARCO-TYPE JUMPING TAMPER	6/1/2006	\$36.500	12/1/2006	\$37.600	6/1/2007	\$38.750	12/1/2007	\$39.850
	5/31/2008	\$40.350						
BLOCK PAVER, RAMMER / CURB SETTER	6/1/2006	\$37.000	12/1/2006	\$38.100	6/1/2007	\$39.250	12/1/2007	\$40.350
	5/31/2008	\$40.850						
BOILERMAKER	10/1/2005	\$48.170						
BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)	8/1/2006	\$59.040	2/1/2007	\$60.690				
BULLDOZER/GRADER/SCRAPER	6/1/2006	\$50.620	12/1/2006	\$52.010	6/1/2007	\$53.000	12/1/2007	\$54.390
CAISSON & UNDERPINNING BOTTOM MAN	6/1/2006	\$40.550	12/1/2006	\$41.650	6/1/2007	\$42.800	12/1/2007	\$43.900
	5/31/2008	\$44.400						
CAISSON & UNDERPINNING LABORER	6/1/2006	\$39.600	12/1/2006	\$40.700	6/1/2007	\$41.850	12/1/2007	\$42.950
	5/31/2008	\$43.450						
CAISSON & UNDERPINNING TOP MAN	6/1/2006	\$39.600	12/1/2006	\$40.700	6/1/2007	\$41.850	12/1/2007	\$42.950
	5/31/2008	\$43.450						
CARBIDE CORE DRILL OPERATOR	6/1/2006	\$36.500	12/1/2006	\$37.600	6/1/2007	\$38.750	12/1/2007	\$39.850
	5/31/2008	\$40.350						
CARPENTER	9/1/2006	\$52.420	3/1/2007	\$53.570	9/1/2007	\$54.720	3/1/2008	\$55.870
	9/1/2008	\$57.020	3/1/2009	\$58.170				
CEMENT MASONRY/PLASTERING	8/1/2006	\$58.230	1/1/2007	\$58.460	2/1/2007	\$59.730	7/1/2007	\$59.950
	1/1/2008	\$60.180	7/1/2008	\$60.410	1/1/2009	\$60.630		
CHAIN SAW OPERATOR	6/1/2006	\$36.500	12/1/2006	\$37.600	6/1/2007	\$38.750	12/1/2007	\$39.850
	5/31/2008	\$40.350						
CLAM SHELLS/SLURRY BUCKETS/HEADING MACHINES	6/1/2006	\$51.890	12/1/2006	\$53.290	6/1/2007	\$54.290	12/1/2007	\$55.690
COMPRESSOR OPERATOR	6/1/2006	\$42.260	12/1/2006	\$43.330	6/1/2007	\$44.080	12/1/2007	\$45.150

This wage schedule must be posted at the work site in accordance with M.G.L. ch. 149, sec. 27

Failure of the employer to pay "prevailing wage rates," which are the minimum wage rates listed above, on public works projects is a violation of M.G.L. ch. 149, sec. 27B. Employees not receiving such rates should report the violation to the Office of Fair Labor and Business Practices, 100 Cambridge Street, Boston, MA 02108; Tel: (617) 727-3465.



DIVISION OF OCCUPATIONAL SAFETY

Prevailing Wage Rates

As determined by the Commissioner under the provisions of the Massachusetts General Laws, Chapter 149, Sections 26 to 27H



JOHN S. ZIEMBA
Director
ROBERT J. PREZIOSO

Awarding Authority: TOWN OF NANTUCKET

Contract Number: 2006-21 City/Town: NANTUCKET

Description Of Work: POLPIS HARBOR TIMBER PILE RETAINING WALL WORKS

Job Location: POLPIS ROAD

Classification		Effect	ive Dates a	and Total	Rates			
DELEADER (BRIDGE)	7/1/2006	\$55.630	1/1/2007	\$56.780	7/1/2007	\$58.080	1/1/2008	\$59.230
	7/1/2008	\$60.380	1/1/2009	\$61.530	7/1/2009	\$62.680	1/1/2010	\$63.830
DEMO: ADZEMAN	6/1/2006	\$39.600	12/1/2006	\$40.700	6/1/2007	\$41.850	12/1/2007	\$42.950
	5/31/2008	\$43.450						
DEMO: BACKHOE/LOADER/HAMMER OPERATOR	6/1/2006	\$40.600	12/1/2006	\$41.700	6/1/2007	\$42.850	12/1/2007	\$43.950
	5/31/2008	\$44.450						
DEMO: BURNERS	6/1/2006	\$40.350	12/1/2006	\$41.450	6/1/2007	\$42.600	12/1/2007	\$43.700
	5/31/2008	\$44.200						
DEMO: CONCRETE CUTTER/SAWYER	6/1/2006	\$40.600	12/1/2006	\$41.700	6/1/2007	\$42.850	12/1/2007	\$43.950
	5/31/2008	\$44.450						
DEMO: JACKHAMMER OPERATOR	6/1/2006	\$40.350	12/1/2006	\$41.450	6/1/2007	\$42.600	12/1/2007	\$43.700
	5/31/2008	\$44.200						
DEMO: WRECKING LABORER	6/1/2006	\$39.600	12/1/2006	\$40.700	6/1/2007	\$41.850	12/1/2007	\$42.950
	5/31/2008	\$43.450						
DIRECTIONAL DRILL MACHINE OPERATOR	6/1/2006	\$50.620	12/1/2006	\$52.010	6/1/2007	\$53.000	12/1/2007	\$54.390
DIVER	8/1/2006	\$66.130	8/1/2007	\$71.730				
DIVER TENDER	8/1/2006	\$52.570	8/1/2007	\$56.570				
DIVER TENDER (EFFLUENT)	8/1/2006	\$69.520	8/1/2007	\$75.520				
DIVER/SLURRY (EFFLUENT)	8/1/2006	\$89.860	8/1/2007	\$98.260				
ELECTRICIAN	9/1/2006	\$46.970						
ELEVATOR CONSTRUCTOR	1/1/2006	\$55.760	1/1/2007	\$58.730				
ELEVATOR CONSTRUCTOR HELPER	1/1/2006	\$42.620	1/1/2007	\$44.990				
FENCE & GUARD RAIL ERECTOR	6/1/2006	\$36.500	12/1/2006	\$37.600	6/1/2007	\$38.750	12/1/2007	\$39.850
	5/31/2008	\$40.350						
FIELD ENG INST. PERSON (BLDG, SITE, HVY CONST)	5/1/2006	\$48.410	11/1/2006	\$49.400	5/1/2007	\$50.790	11/1/2007	\$51.780
	5/1/2008	\$5.160						
FIELD ENG ROD PERSON (BLDG, SITE, HVY CONST)	5/1/2006	\$36.450	11/1/2006	\$37.070	5/1/2007	\$37.940	11/1/2007	\$38.560
	5/1/2008	\$39.420						
FIELD ENGCHIEF OF PARTY (BLDG, SITE, HVY	5/1/2006	\$49.700	11/1/2006	\$50.700	5/1/2007	\$52.100	11/1/2007	\$53.100
CONST)	5/1/2008	\$54.500						
FIRE ALARM INSTALLER	9/1/2006	\$46.970						
FIRE ALARM REPAIR / MAINTENANCE	9/1/2006	\$36.840						
FIREMAN (ASST. ENGINEER)	6/1/2006	\$46.200	12/1/2006	\$47.420	6/1/2007	\$48.290	12/1/2007	\$49.500
FLAGGER & SIGNALER	6/1/2006	\$30.300	12/1/2006	\$31.400	6/1/2007	\$32.550	12/1/2007	\$33.650
	5/31/2008	\$34.150						
FLOORCOVERER	9/1/2006	\$50.350	3/1/2007	\$51.520	9/1/2007	\$52.690	3/1/2008	\$53.860
	9/1/2008	\$55.030	3/1/2009	\$56.200				
FORK LIFT/CHERRY PICKER	6/1/2006	\$50.890	12/1/2006	\$52.290	6/1/2007	\$53.290	12/1/2007	\$54.690
GENERATOR/LIGHTING PLANT/HEATERS	6/1/2006	\$42.260	12/1/2006	\$43.330	6/1/2007	\$44.080	12/1/2007	\$45.150

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DIVISION OF OCCUPATIONAL SAFETY

Prevailing Wage Rates

As determined by the Commissioner under the provisions of the Massachusetts General Laws, Chapter 149, Sections 26 to 27H



Director

ROBERT J. PREZIOSO

Commissioner

Awarding Authority: TOWN OF NANTUCKET

Contract Number: 2006-21 City/Town: NANTUCKET

Description Of Work: POLPIS HARBOR TIMBER PILE RETAINING WALL WORKS

Job Location: POLPIS ROAD

Classification		Effect	ive Dates a	nd Tota	l Rates			
GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)	6/1/2006	\$41.180	6/1/2007	\$42.830	6/1/2008	\$44.680		
HOISTING ENGINEER/CRANES/GRADALLS	6/1/2006	\$50.890	12/1/2006	\$52.290	6/1/2007	\$53.290	12/1/2007	\$54.690
HVAC (DUCTWORK)	10/1/2005	\$43.330	10/1/2006	\$44.330	4/1/2007	\$45.330	10/1/2007	\$46.330
	4/1/2008	\$47.330	10/1/2008	\$48.330	4/1/2009	\$49.580	10/1/2009	\$50.830
	4/1/2010	\$52.080						
HVAC (ELECTRICAL CONTROLS)	9/1/2006	\$46.970						
HVAC (PIPE)	9/1/2006	\$51.120	3/1/2007	\$52.120	9/1/2007	\$53.120	3/1/2008	\$54.120
	9/1/2008	\$55.120						
HVAC (TESTING AND BALANCING - AIR)	10/1/2005	\$43.330	10/1/2006	\$44.330	4/1/2007	\$45.330	10/1/2007	\$46.330
	4/1/2008	\$47.330	10/1/2008	\$48.330	4/1/2009	\$49.580	10/1/2009	\$50.830
	4/1/2010	\$52.080						
HVAC (TESTING AND BALANCING -WATER)	9/1/2006	\$51.120	3/1/2007	\$52.120	9/1/2007	\$53.120	3/1/2008	\$54.120
	9/1/2008	\$55.120						
HYDRAULIC DRILLS	6/1/2006	\$37.000	12/1/2006	\$38.100	6/1/2007	\$39.250	12/1/2007	\$40.350
	5/31/2008	\$40.850						
INSULATOR (PIPES & TANKS)	9/1/2006	\$47.570	9/1/2007	\$49.710	9/1/2008	\$52.020	9/1/2009	\$54.560
	9/1/2010	\$57.150						
IRONWORKER/WELDER	5/29/2006	\$44.200	1/1/2007	\$45.100	5/28/2007	\$46.000	12/31/2007	\$46.900
	5/26/2008	\$47.800	12/29/2008	\$48.650				
JACKHAMMER & PAVING BREAKER OPERATOR	6/1/2006	\$36.500	12/1/2006	\$37.600	6/1/2007	\$38.750	12/1/2007	\$39.850
	5/31/2008	\$40.350						
LABORER	6/1/2006	\$36.250	12/1/2006	\$37.350	6/1/2007	\$38.500	12/1/2007	\$39.600
	5/31/2008	\$40.100						
LABORER: CARPENTER TENDER	6/1/2006	\$36.250	12/1/2006	\$37.350	6/1/2007	\$38.500	12/1/2007	\$39.600
	5/31/2008	\$40.100						
LABORER: CEMENT FINISHER TENDER	6/1/2006	\$36.250	12/1/2006	\$37.350	6/1/2007	\$38.500	12/1/2007	\$39.600
	5/31/2008	\$40.100						
LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER	6/1/2006	\$36.250	12/1/2006	\$37.350	6/1/2007	\$38.500	12/1/2007	\$39.600
	5/31/2008	\$40.100						
LABORER: MASON TENDER	6/1/2006	\$36.500	12/1/2006	\$37.600	6/1/2007	\$38.750	12/1/2007	\$39.850
	5/31/2008	\$40.350						
LABORER: MULTI-TRADE TENDER	6/1/2006	\$36.250	12/1/2006	\$37.350	6/1/2007	\$38.500	12/1/2007	\$39.600
	5/31/2008	\$40.100						
LABORER: TREE REMOVER	6/1/2006	\$36.250	12/1/2006	\$37.350	6/1/2007	\$38.500	12/1/2007	\$39.600
	5/31/2008	\$40.100						
LASER BEAM OPERATOR	6/1/2006	\$36.500	12/1/2006	\$37.600	6/1/2007	\$38.750	12/1/2007	\$39.850
	5/31/2008	\$40.350						
MARBLE & TILE FINISHERS	9/1/2006	\$49.780	3/1/2007	\$51.100				
MARBLE MASONS, TILELAYERS & TERRAZZO MECH	9/1/2006	\$59.080	3/1/2007	\$60.730				

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DIVISION OF OCCUPATIONAL SAFETY

Prevailing Wage Rates

As determined by the Commissioner under the provisions of the Massachusetts General Laws, Chapter 149, Sections 26 to 27H



JOHN S. ZIEMBA
Director
ROBERT J. PREZIOSO
Commissioner

Awarding Authority: TOWN OF NANTUCKET

Contract Number: 2006-21 City/Town: NANTUCKET

Description Of Work: POLPIS HARBOR TIMBER PILE RETAINING WALL WORKS

Job Location: POLPIS ROAD

Classification		Effect	ive Dates a	and Total	Rates			
MECH. SWEEPER OPERATOR (NON-CONSTRUCTION)	7/1/2006	\$25.570						
MECH. SWEEPER OPERATOR (ON CONST. SITES)	6/1/2006	\$50.620	12/1/2006	\$52.010	6/1/2007	\$53.000	12/1/2007	\$54.390
MECHANICS MAINTENANCE	6/1/2006	\$50.620	12/1/2006	\$52.010	6/1/2007	\$53.000	12/1/2007	\$54.390
MILLWRIGHT	4/1/2006	\$47.550						
MORTAR MIXER	6/1/2006	\$36.500	12/1/2006	\$37.600	6/1/2007	\$38.750	12/1/2007	\$39.850
	5/31/2008	\$40.350						
OILER (OTHER THAN TRUCKS, CRANES, GRADALLS)	6/1/2006	\$37.280	12/1/2006	\$38.150	6/1/2007	\$38.770	12/1/2007	\$39.640
OILER (TRUCKS, CRANES, GRADALLS)	6/1/2006	\$39.690	12/1/2006	\$40.660	6/1/2007	\$41.350	12/1/2007	\$42.310
OTHER POWER DRIVEN EQUIPMENT - CLASS II	6/1/2006	\$50.620	12/1/2006	\$52.010	6/1/2007	\$53.000	12/1/2007	\$54.390
PAINTER (BRIDGES/TANKS)	7/1/2006	\$55.630	1/1/2007	\$56.780	7/1/2007	\$58.080	1/1/2008	\$59.230
	7/1/2008	\$60.380	1/1/2009	\$61.530	7/1/2009	\$62.680	1/1/2010	\$63.830
PAINTER (SPRAY OR SANDBLAST, NEW) *	7/1/2006	\$46.530	1/1/2007	\$47.680	7/1/2007	\$48.980	1/1/2008	\$50.130
	7/1/2008	\$51.280	1/1/2009	\$52.430	7/1/2009	\$53.580	1/1/2010	\$54.730
PAINTER (SPRAY OR SANDBLAST, REPAINT)	7/1/2006	\$44.590	1/1/2007	\$45.740	7/1/2007	\$47.040	1/1/2008	\$48.190
	7/1/2008	\$49.340	1/1/2009	\$50.490	7/1/2009	\$51.640	1/1/2010	\$52.790
PAINTER (TRAFFIC MARKINGS)	6/1/2006	\$36.250	12/1/2006	\$37.350	6/1/2007	\$38.500	12/1/2007	\$39.600
	5/31/2008	\$40.100						
PAINTER / TAPER (BRUSH, NEW) *	7/1/2006	\$45.130	1/1/2007	\$46.280	7/1/2007	\$47.580	1/1/2008	\$48.730
	7/1/2008	\$49.880	1/1/2009	\$51.030	7/1/2009	\$52.180	1/1/2010	\$53.330
PAINTER / TAPER (BRUSH, REPAINT)	7/1/2006	\$43.190	1/1/2007	\$44.340	7/1/2007	\$45.640	1/1/2008	\$46.790
	7/1/2008	\$47.940	1/1/2009	\$49.090	7/1/2009	\$50.240	1/1/2010	\$51.390
PANEL & PICKUP TRUCKS DRIVER	8/1/2006	\$38.060	12/1/2006	\$38.760	6/1/2007	\$39.260	8/1/2007	\$39.760
	12/1/2007	\$40.460	6/1/2008	\$40.960	8/1/2008	\$41.460	12/1/2008	\$42.160
PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK)	8/1/2006	\$52.570	8/1/2007	\$56.570				
PILE DRIVER	8/1/2006	\$52.570	8/1/2007	\$56.570				
PIPELAYER	6/1/2006	\$36.500	12/1/2006	\$37.600	6/1/2007	\$38.750	12/1/2007	\$39.850
	5/31/2008	\$40.350						
PLUMBER & PIPEFITTER	9/1/2006	\$51.120	3/1/2007	\$52.120	9/1/2007	\$53.120	3/1/2008	\$54.120
	9/1/2008	\$55.120						
PNEUMATIC CONTROLS (TEMP.)	9/1/2006	\$51.120	3/1/2007	\$52.120	9/1/2007	\$53.120	3/1/2008	\$54.120
	9/1/2008	\$55.120						
PNEUMATIC DRILL/TOOL OPERATOR	6/1/2006	\$36.500	12/1/2006	\$37.600	6/1/2007	\$38.750	12/1/2007	\$39.850
	5/31/2008	\$40.350						
POWDERMEN & BLASTER	6/1/2006	\$37.250	12/1/2006	\$38.350	6/1/2007	\$39.500	12/1/2007	\$40.600
	5/31/2008	\$41.100						
POWER SHOVEL/DERRICK/TRENCHING MACHINE	6/1/2006	\$50.890	12/1/2006	\$52.290	6/1/2007	\$53.290	12/1/2007	\$54.690
PUMP OPERATOR (CONCRETE)	6/1/2006	\$50.890	12/1/2006	\$52.290	6/1/2007	\$53.290	12/1/2007	\$54.690
PUMP OPERATOR (DEWATERING, OTHER)	6/1/2006	\$42.260	12/1/2006	\$43.330	6/1/2007	\$44.080	12/1/2007	\$45.150
READY-MIX CONCRETE DRIVER	6/1/2006	\$26.410	6/1/2007	\$27.360	6/1/2008	\$28.310		

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DIVISION OF OCCUPATIONAL SAFETY

Prevailing Wage Rates

As determined by the Commissioner under the provisions of the Massachusetts General Laws, Chapter 149, Sections 26 to 27H



JOHN S. ZIEMBA
Director
ROBERT J. PREZIOSO
Commissioner

Awarding Authority: TOWN OF NANTUCKET

Contract Number: 2006-21 City/Town: NANTUCKET

Description Of Work: POLPIS HARBOR TIMBER PILE RETAINING WALL WORKS

Job Location: POLPIS ROAD

Classification		Effect	ive Dates a	nd Total	Rates			
RECLAIMERS	6/1/2006	\$50.620	12/1/2006	\$52.010	6/1/2007	\$53.000	12/1/2007	\$54.390
RESIDENTIAL WOOD FRAME CARPENTER **	9/1/2005	\$31.350						
RIDE-ON MOTORIZED BUGGY OPERATOR	6/1/2006	\$36.500	12/1/2006	\$37.600	6/1/2007	\$38.750	12/1/2007	\$39.850
	5/31/2008	\$40.350						
ROLLER/SPREADER/MULCHING MACHINE	6/1/2006	\$50.620	12/1/2006	\$52.010	6/1/2007	\$53.000	12/1/2007	\$54.390
ROOFER (Inc.Roofer Waterproofng &Roofer Damproofg)	8/1/2006	\$47.460	2/1/2007	\$48.910	8/1/2007	\$50.010	2/1/2008	\$41.410
	8/1/2008	\$52.510	2/1/2009	\$53.910				
SHEETMETAL WORKER	10/1/2005	\$43.330	10/1/2006	\$44.330	4/1/2007	\$45.330	10/1/2007	\$46.330
	4/1/2008	\$47.330	10/1/2008	\$48.330	4/1/2009	\$49.580	10/1/2009	\$50.830
	4/1/2010	\$52.080						
SIGN ERECTOR	6/1/2005	\$29.070						
SLATE / TILE / PRECAST CONCRETE ROOFER	8/1/2006	\$47.710	2/1/2007	\$49.160	8/1/2007	\$50.260	2/1/2008	\$51.660
	8/1/2008	\$52.760	2/1/2009	\$54.160				
SPECIALIZED EARTH MOVING EQUIP < 35 TONS	8/1/2006	\$38.520	12/1/2006	\$39.220	6/1/2007	\$39.720	8/1/2007	\$40.750
	12/1/2007	\$40.920	6/1/2008	\$41.420	8/1/2008	\$41.920	12/1/2008	\$42.620
SPECIALIZED EARTH MOVING EQUIP > 35 TONS	8/1/2006	\$38.810	12/1/2006	\$39.510	6/1/2007	\$40.010	8/1/2007	\$40.510
	12/1/2007	\$41.210	6/1/2008	\$41.710	8/1/2008	\$42.210	12/1/2008	\$42.910
SPRINKLER FITTER	4/1/2006	\$44.780	1/1/2007	\$46.530				
STEAM BOILER OPERATOR	6/1/2006	\$50.620	12/1/2006	\$52.010	6/1/2007	\$53.000	12/1/2007	\$54.390
TAMPERS, SELF-PROPELLED OR TRACTOR DRAWN	6/1/2006	\$50.620	12/1/2006	\$52.010	6/1/2007	\$53.000	12/1/2007	\$54.390
TELECOMMUNICATION TECHNICIAN	9/1/2006	\$36.840						
TERRAZZO FINISHERS	9/1/2006	\$57.980	3/1/2007	\$59.630				
TEST BORING DRILLER	6/1/2006	\$41.000	12/1/2006	\$42.100	6/1/2007	\$43.250	12/1/2007	\$44.350
	5/31/2008	\$44.850						
TEST BORING DRILLER HELPER	6/1/2006	\$39.720	12/1/2006	\$40.820	6/1/2007	\$41.970	12/1/2007	\$43.070
	5/31/2008	\$43.570						
TEST BORING LABORER	6/1/2006	\$39.600	12/1/2006	\$40.700	6/1/2007	\$41.850	12/1/2007	\$42.950
	5/31/2008	\$43.450						
TRACTORS/PORTABLE STEAM GENERATORS	6/1/2006	\$50.620	12/1/2006	\$52.010	6/1/2007	\$53.000	12/1/2007	\$54.390
TRAILERS FOR EARTH MOVING EQUIPMENT	8/1/2006	\$39.100	12/1/2006	\$39.800	6/1/2007	\$40.300	8/1/2007	\$40.800
	12/1/2007	\$41.500	6/1/2008	\$42.000	8/1/2008	\$42.500	12/1/2008	\$43.200
TUNNEL WORK (COMP. AIR HAZ. WASTE)	6/1/2006	\$53.130	12/1/2006	\$54.380	6/1/2007	\$55.780	12/1/2007	\$57.530
TUNNEL WORK (COMPRESSED AIR)	6/1/2006	\$51.130	12/1/2006	\$52.380	6/1/2007	\$53.780	12/1/2007	\$55.530
TUNNEL WORK (FREE AIR HAZ. WASTE)	6/1/2006	\$45.200	12/1/2006	\$46.450	6/1/2007	\$47.850	12/1/2007	\$49.600
TUNNEL WORK (FREE AIR)	6/1/2006	\$43.200	12/1/2006	\$44.450	6/1/2007	\$45.850	12/1/2007	\$47.600
VAC-HAUL	8/1/2006	\$38.520	12/1/2006	\$39.220	6/1/2007	\$39.720	8/1/2007	\$40.220
	12/1/2007	\$40.920	6/1/2008	\$41.420	8/1/2008	\$41.920	12/1/2008	\$42.620
WAGON DRILL OPERATOR	6/1/2006	\$36.500	12/1/2006	\$37.600	6/1/2007	\$38.750	12/1/2007	\$39.850
	5/31/2008	\$40.350						
WASTE WATER PUMP OPERATOR	6/1/2006	\$50.890	12/1/2006	\$52.290	6/1/2007	\$53.290	12/1/2007	\$54.690

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Prevailing Wage Rates

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Director
ROBERT J. PREZIOSO
Commissioner

Awarding Authority: TOWN OF NANTUCKET

Contract Number: 2006-21 City/Town: NANTUCKET

Description Of Work: POLPIS HARBOR TIMBER PILE RETAINING WALL WORKS

Job Location: POLPIS ROAD

 Classification
 Effective Dates and Total Rates

 WATER METER INSTALLER
 9/1/2006
 \$51.120
 3/1/2007
 \$52.120
 9/1/2007
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^{*} If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used.

^{**} The Residential Wood Frame Carpenter classification applies only to the construction of new, wood frame residences that do not exceed four stories including the basement.



DIVISION OF OCCUPATIONAL SAFETY

Prevailing Wage Rates

As determined by the Commissioner under the provisions of the Massachusetts General Laws, Chapter 149, Sections 26 to 27H



Awarding Authority: TOWN OF NANTUCKET

Contract Number: 2006-21 City/Town: NANTUCKET

Description Of Work: POLPIS HARBOR TIMBER PILE RETAINING WALL WORKS

Job Location: POLPIS ROAD

Classification Effective Dates and Total Rates BLASTER 10/1/2005 \$35.730 BOAT CAPTAIN 10/1/2005 \$30.270 10/1/2005 \$31.890 BOAT MASTER CORE DRILLER 10/1/2005 \$28 630 CORE DRILLER HELPER 10/1/2005 \$26.480 DRILLER 10/1/2005 \$35.200 ENGINEER 10/1/2005 \$35.190 HELPER 10/1/2005 \$30.670 MACHINIST 10/1/2005 \$34.330 OILER 10/1/2005 \$30.670 TUG DECKHAND 10/1/2005 \$25.840 WELDER 10/1/2005 \$34.330

This wage schedule must be posted at the work site in accordance with M.G.L. ch. 149, sec. 27

Failure of the employer to pay "prevailing wage rates," which are the minimum wage rates listed above, on public works projects is a violation of M.G.L. ch. 149, sec. 27B. Employees not receiving such rates should report the violation to the Office of Fair Labor and Business Practices, 100 Cambridge Street, Boston, MA 02108; Tel: (617) 727-3465.

Issue Date: 9/12/2006 Rate Sheet: MARINE DRILLING Job ID: 106475 Page: 1

COMMONWEALTH OF MASSACHUSETTS

Division of Occupational Safety

Minimum wage rates for apprentices employed on public works projects are listed below as a percentage of the pre-determined hourly wage rate established by the Commissioner under the provisions of the Massachusetts General Laws, Chapter 149, Sections 26 through 27D, as ammended

All apprentices must be registered with the Division of Apprentice Training in accordance with M.G.L. Chapter 23, Sections 11E-11L

City/Town: NANTUCKET		All	steps a	re 6 mor	nths (100	00 Hours	s) unless	otherw	rise spec	cified**	
Classification	Ratio*	1	2	3	4	5	6	7	8	9	10
ASBESTOS INSULATOR (Pipes &	1:4	50	60	70	80						
Tanks)				Steps	are 1 ye	ear					
BOILERMAKER	1:5	65	65	70	75	80	85	90	95		
BRICK/PLASTER/CEMENT MASON	1:5	50	60	70	80	90					
CARPENTER	1:5	50	60	70	75	80	80	90	90		
CARPENTER (Residential Wood Frame)	1:5	60	60	65	70	75	80	85	90		
ELECTRICIAN	2:3***	40	45	50	55	60	65	70	75		
ELEVATOR CONSTRUCTOR	1:1	50	55	65	70	80					
				Steps	1-2 are	6 mos.;	Steps 3-	5 are 1	year		
FLOORCOVERER	1:1	50	55	60	65	70	75	80	85		
				-	are 950						
GLAZIER	1:1	50	56.3	62.5	68.8	75	81.3	88	94		
HOIST/PORT. ENG.	1:5	55	60	65	70	75	80	85	90		
IRONWORKER	1:5	70	75	80	85	90	95				
LABORER	1:5	60	70	80	90						
MARBLE-TILE-TERRAZZO FINISHER	1:3	50	60	70 Steps	80 are 800	90 hrs.					
MARBLE-TILE-TERRAZZO MECHANIC	1:3	50	60	70	80	90					
MILLWRIGHT	1:5	50	55	60	65	70	75	80	85		

^{*} Ratios are expressed in allowable number of apprentices to journeymen or fraction thereof.

Issue Date: 9/12/2006 Rate Sheet: NANTUCKET Job ID: 106474

^{**} Multiple ratios are listed in comment field.

^{***} The job site ratio of 2 apprentices for every 3 journeymen is allowed as follows: 1 journeyman may supervise not more than 1 apprentice; 2 to 3 journeymen may supervise not more than 2 apprentices; 4 to 6 journeymen may supervise not more than 4 apprentices; 7 to 9 journeymen may supervise not more than 6 apprentices; 10 to 12 journeymen may supervise not more than 8 apprentices; 13 to 15 journeymen may supervise not more than 50% of the apprentices on a job site may have standing as a 1st year apprentice. All other apprentices must have 2nd, 3rd, 4th, or 5th year standing.

COMMONWEALTH OF MASSACHUSETTS

Division of Occupational Safety

Minimum wage rates for apprentices employed on public works projects are listed below as a percentage of the pre-determined hourly wage rate established by the Commissioner under the provisions of the Massachusetts General Laws, Chapter 149, Sections 26 through 27D, as ammended

All apprentices must be registered with the Division of Apprentice Training in accordance with M.G.L. Chapter 23, Sections 11E-11L

City/Town: NANTUCKET		All:	steps a	re 6 mor	nths (100	00 Hours	s) unless	otherw	ise spec	ified**	
PAINTER	1:1	50	55	60	65	70	75	80	90		
				Steps	are 750	hrs.					
PILE DRIVER	1:3	60	65	70	75	80	85	90	95		
PLUMBER/PIPEFITTER	1:5	40	40	45	50	55	60	65	75	80	85
ROOFER	**	50	60	65	75	85					
** 1:5, 2:6 -10 thereafter 1:1	0 (or portion	on thereo	of)	Step 1	l is 2000	hrs.; St	eps 2-5	are 100	0 hrs.		
ROOFER (REROOFING)	**	50	60	65	75	85					
** 1:4; Thereafter 1:1				Step 1	1 is 2000) hrs.; St	eps 2-5	are 100	0 hrs.		
SHEET METAL WORKER	1:4	40	45	50	60	65	75	85			
				Step 1	1-3 are 1	l year; S	teps 4-7	are 6 n	10S.		
SIGN ERECTOR	1:1	50	55	60	65	70	75	80	85	90	
				Steps	are 4 m	IOS.					
SPRINKLER FITTER	1:1	50	50	55	60	65	70	75	80	85	90
TELECOMMUNICATION	1:1	45	50	55	60	65	75	80	85		
TECHNICIAN											

 Issue Date:
 9/12/2006
 Rate Sheet:
 NANTUCKET
 Job ID:
 106474

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AFA BOURCES:
The planmentic data on this mapchoot is base primarily upon interpretation by Charles H. Se thin ci Afart. 1008, color acids protography at "SEO" scale.



Town of Nantucket GIS Mapsheet

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AGREEMENT BETWEEN THE TOWN OF NANTUCKET, MASSACHUSETTS AND INDEPENDENT CONTRACTOR

THIS AGREEMENT made effective ______, 2006, by and between the **TOWN OF NANTUCKET**, **MASSACHUSETTS**, a municipal corporation, acting by and through its Town Administrator, with offices at Town Hall, Nantucket, Massachusetts 02554 (hereinafter called the "TOWN"), and **xxxxxxxxx** whose principal office address and state of incorporation are as set forth on Exhibit A (hereinafter called the "CONTRACTOR").

RECITALS:

WHEREAS, the TOWN desires to retain the CONTRACTOR to provide certain services for the TOWN as described, below, and the CONTRACTOR is willing to accept such engagement, all on the terms hereinafter set forth,

NOW, THEREFORE, in consideration of the mutual covenants hereinafter set forth, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

ARTICLE 1 - ENGAGEMENT OF THE CONTRACTOR

- 1.1 The TOWN hereby engages the CONTRACTOR, and the CONTRACTOR hereby accepts the engagement, to perform certain services for the TOWN, as described in Article 2.
- 1.2. In the performance of any service under this Agreement, the CONTRACTOR acts at all times as an independent contractor. There is no relationship of employment or agency between the TOWN, on the one hand, and the CONTRACTOR on the other, and the TOWN shall not have or exercise any control or direction over the method by which the CONTRACTOR performs its work or functions aside from such control or directions which are consistent with the independent contractor relationship contemplated in the Agreement.

ARTICLE 2 - SERVICES OF THE CONTRACTOR

- 2.1 The CONTRACTOR will perform the services described in the Scope of Services set forth on Exhibit A (the "Work").
- 2.2 The CONTRACTOR shall report, and be responsible, to the TOWN and its designee (if any) as set forth on Exhibit A.
- 2.3 There shall be no amendment to the Scope of Services or Work provided for in this Agreement without the written approval of the TOWN. The TOWN shall be under no obligation to pay for any services performed by the CONTRACTOR which are not explicitly agreed to by the TOWN in writing.
- 2.4 The CONTRACTOR represents and warrants to the TOWN that the CONTRACTOR (including all of its personnel, whether employees, agents or independent contractors) will be qualified and duly licensed (if necessary) to perform the services required by this Agreement and further agrees to perform services in a professional manner adhering to a reasonable standard of care and in accordance with all applicable

- local, state or federal ordinances, laws, rules and regulations. The CONTRACTOR will obtain any and all permits, bonds and other items required for the proper and legal performance of the work.
- 2.5 The CONTRACTOR represents and warrants to the TOWN that it is not a party to any agreement; contract or understanding which would in any way restricts or prohibits it from undertaking or performing its obligations hereunder in accordance with the terms and conditions of this Agreement.
- All written materials and any other documents (whether in the form of "hard" copies, graphics, magnetic media or otherwise) which are produced by the CONTRACTOR pursuant to this Agreement shall be deemed to be "work for hire" and the copyright thereto shall be the property of the TOWN. The TOWN acknowledges that such materials are being prepared with respect to the specific project contemplated hereby and that any reuse of such materials by the TOWN in connection with any other project shall be at the TOWN's sole risk unless otherwise agreed to by the CONTRACTOR in writing.

ARTICLE 3 - PERIOD OF SERVICES

- 3.1 Unless otherwise provided on Exhibit A, the term of this Agreement shall commence on the date hereof and continue until the Work is completed to the Town's reasonable satisfaction.
- 3.2 The CONTRACTOR shall proceed with the Work promptly after receiving authorization to proceed and will diligently and faithfully prosecute the Work to completion in accordance with the provisions hereof. In any event, the Work shall be completed not later than the date set forth on Exhibit A. The CONTRACTOR acknowledges that time is of the essence of this Agreement.
- 3.3 If the CONTRACTOR is delayed in the performance of any of its obligations under this Agreement by the occurrence of an event which may not reasonably be anticipated or avoided or is otherwise beyond its control such as fire or other casualty, abnormal adverse weather conditions, acts of God (collectively, "Unavoidable Events") which materially and adversely affect its ability to perform the Work, then the time for the CONTRACTOR to perform the Work shall be extended for such time as the TOWN shall reasonably determine is necessary to permit the CONTRACTOR to perform in light of the effects of the Unavoidable Event.

If an Unavoidable Event occurs which makes the performance of the Agreement impossible without the expenditure of additional TOWN funds, the TOWN may, at its option, elect to terminate this Agreement upon thirty (30) days written notice.

ARTICLE 4 - PAYMENTS TO THE CONTRACTOR

- 4.1 The compensation to due to the CONTRACTOR shall be paid in the amounts, and in the manner, set forth on Exhibit B, attached hereto.
- 4.2 The CONTRACTOR will bill the TOWN at the completion of the work unless otherwise provided on Exhibit B, with one or more invoices broken down to show the quantity of work performed and the percentage of the entire project completed, categories and amount of reimbursable expenses (if any), and provide such supporting data as may be required by the TOWN.
- 4.3 The TOWN will pay the CONTRACTOR upon review and approval of such invoices by the TOWN or its designee.

This project may be subject to budgetary restrictions which may limit the total amount of funds available for the work. Accordingly, unless otherwise stated on Exhibit B, the TOWN will not be obligated to pay any amount in excess of the maximum project amount without the express written approval of the TOWN.

ARTICLE 5 - TERMINATION

- 5.1 This Agreement may be terminated, with cause, by either the TOWN or CONTRACTOR, upon written notice given by the non-defaulting party. For the purposes of this provision, "cause" shall include the failure of a party to fulfill its material duties hereunder in a timely and proper manner.
- 5.2 The TOWN shall have the right to terminate this Agreement for its convenience upon ten (10) days written notice.
- Following termination of this Agreement, the parties shall be relieved of all further obligations hereunder except:
 - (a) the TOWN shall remain liable for payments for the services and/or expenses of CONTRACTOR accrued prior to the effective date of the notice of termination in compliance with this Agreement (less all costs reasonably incurred by the TOWN as a result of the CONTRACTOR's default, if any), as determined by the TOWN but for no other amounts including, without limitation, claims for lost profits on work not performed; and
 - (b) The CONTRACTOR shall remain liable for any damages, expenses or liabilities arising under this Agreement (including its indemnity obligations) with respect to work performed pursuant to the Agreement.

ARTICLE 6 - INSURANCE AND INDEMNIFICATION

- The CONTRACTOR agrees to indemnify and save the TOWN harmless from any and all manner of suits, claims, or demands arising out of any errors, omissions or negligence by CONTRACTOR (including all its employees, agents and independent contractors) in performing the Work, or any breach of the terms of this Agreement by such CONTRACTOR and shall reimburse the TOWN for any and all costs, damages and expenses, including reasonable attorney's fees, which the TOWN pays or becomes obligated to pay, by reason of such activities, or breach. The provisions of this Section 6.1 shall be in addition to, and shall not be construed as a limitation on, any other legal rights of the TOWN with respect to the CONTRACTOR, in connection with this Agreement.
- 6.2 Before commencing work, the CONTRACTOR shall obtain and maintain, at its expense and from insurance companies of a Best Rating of A or better which are licensed to do business in the Commonwealth of Massachusetts, insurance as set forth below.
 - (a) Workers' Compensation, covering the obligations of the CONTRACTOR in accordance with applicable Workers' Compensation or Benefits laws.
 - (b) Commercial General Liability Insurance on an occurrence basis with a combined single limit of not less than \$1 million. Coverage is to include premises and operations, coverage for liability of subcontractors. The policy shall contain an endorsement stating that the aggregate limits will apply separately to the work being performed under this Agreement.

- (c) Automobile Liability Insurance of not less than \$1 million combined single limit covering owned, hired and non-hired vehicle use.
- (d) Such additional insurance as may be required to be carried by the CONTRACTOR by law.
- (f) Such additional insurance as the TOWN may reasonably require as set forth on Exhibit A.

CONTRACTOR shall maintain such insurance during the term of Agreement and give the TOWN twenty (20) days written notice of any change or cancellation of coverage. Each insurer providing policies hereunder shall waive its rights to subrogate claims against the TOWN. The TOWN will be added as an additional named insured with respect to each such policy and such endorsement shall be reflected on a Certificate of Insurance to be delivered to the TOWN upon the execution of this Agreement and at such times thereafter as the TOWN may reasonably request.

ARTICLE 7 - GENERAL PROVISIONS

- 7.1 Upon the expiration or the termination of this Agreement for any reason, all data, drawings, specifications, reports, estimates, summaries and other work product which have been accumulated, developed or prepared by the CONTRACTOR (whether completed or in process) shall become the property of the TOWN and the CONTRACTOR shall immediately deliver or otherwise make available all such material to the TOWN.
- 7.2 Neither party may assign, transfer or otherwise dispose of this Agreement or any of its rights hereunder or otherwise delegate any of its duties hereunder without the prior written consent of the other party, and any such attempted assignment or other disposition without such consent shall be null and void and of no force and effect.
- 7.3 Except as otherwise expressly provided in this Agreement, any decision or action made by the TOWN relating to this Agreement, its operation, amendment or termination, shall be made by the Board, Committee or Authority of the TOWN specified in the initial paragraph of this Agreement, unless specifically authorized or delegated by a lawful vote of such body.
- This Agreement, together with Exhibit A (Contractor, Scope of Work, Term), Exhibit B (Payments) and Exhibit C (Tax Compliance Certificate) and any additional exhibits referred to therein, constitute the entire agreement of TOWN and CONTRACTOR with respect to the matters set forth therein and may not be changed, amended, modified or terms waived except by a writing signed by TOWN and CONTRACTOR. If there is any conflict between a term set forth in the body of this Agreement and a term set forth on Exhibit A or Exhibit B hereto, the term set forth in the Exhibit shall govern; however, if any term or provision of any document attached hereto or incorporated by reference conflicts with a term of this Agreement (including the Exhibits listed above), the term of the Agreement shall govern. Any notices required or allowed shall be to the person's address above by certified mail, return receipt requested.
- 7.5 This Agreement is governed by the law of The Commonwealth of Massachusetts and shall be construed in accordance therewith.

IN WITNESS WHEREOF, the parties hereto hav above.	re executed this Agreement the day and year first written
TOWN OF NANTUCKET, MASSACHUSETTS	CONTRACTOR Name
C. Elizabath Cibaar	NAME
C. Elizabeth Gibson Town Administrator	NAME President
Org./Obj.:	FEIN:
Approved as To Funds Available:	
Constance Voges, Finance Director	

EXHIBIT A

CONTRACTOR, SCOPE OF WORK, TERM

- 1. Name of Contractor:
- 2. State of Incorporation:
- 3. Principal Office Address:

Description of Services (§2.1): Supply labor, equipment, and materials for the demolition of portions of a deteriorated timber pile retaining wall and for the construction of a new 142 ft long timber pile supported retaining wall located in Polpis Harbor, Nantucket, MA in accordance with the plans prepared by Childs Engineering, Inc. and the written specifications contained herein as Attachment A

WRITTEN SPECIFICATIONS

Project: Polpis Harbor Retaining Wall

SECTION 06310 TIMBER TREATMENT (CCA)

PART 1 GENERAL

1.01 DESCRIPTION

A. Provide all labor, materials, equipment and supervision necessary to complete the work specified in this Section.

1.02 SCOPE OF WORK

- A. Scope of work includes:
 - 1. The treatment of timber members with a wood preservative.
 - 2. The field application of all timber subject to field cutting and drilling.

1.03 RFLATED WORK

- A. Related work specified elsewhere:
 - 1. Timber under HEAVY TIMBER CONSTRUCTION, SECTION 06310.
 - 2. Piles under ROUND TIMBER PILES, SECTION 02311.

1.04 OUALITY ASSURANCE

A. Except as noted all work shall conform to the latest editions of the following codes, specifications and standards.

- 1. American Society for Testing and Materials (ASTM) D-25.
- 2. American Wood Preservatives Association (AWPA).

PART 2 PRODUCTS

2.01 MATERIALS

- A. All new Southern Yellow Pine and Douglas Fir timber members shall be treated with chromated copper arsenate (CCA) or anmonical copper zinc arsenate (ACZA) in accordance with AWPA Standard P5 and C2 for material subject to marine borer exposure and shall obtain a green tint due to the treatment.
- B. All new Southern Yellow Pine and Douglas Fir piles shall be treated with chromated copper arsenate (CCA) or animonical copper zinc arsenate (ACZA) in accordance with AWPA Standards P5 and C4 for marine piles and shall obtain a green tint due to the treatment.

PART 3 EXECUTION

- 3.01 Prior to treatment all dimension lumber shall be kiln-dried. Conditioning by heating is not permitted.
- 3.02 All timber piles and timber sheeting shall be treated to a retention of 2.5 pounds per cubic foot of chromated copper arsenate or anmonical copper zinc arsenate.
- 3.03 All other timber and lumber shall be treated to a retention of 1.5 pounds per cubic foot of chromated copper arsenate.
- 3.04 Sealing compound for treatment of field cuts and drilled holes shall be two (2) coats of copper naphthenate with a minimum 2% copper meeting AWPA standard M4.

SECTION 02110 DEMOLITION

PART 1 GENERAL 1.01 DESCRIPTION

A. Provide all labor, materials, equipment and supervision necessary to complete the work specified in this Section.

1.02 SCOPE OF WORK

- A. Includes, but is not necessarily limited to the following:
 - 1. Removal and disposal of:
 - a. Cut off timber piles as designated
 - b. Timber sheeting and wales as designated by the drawings
 - c. Miscellaneous hardware, steel angles, pieces of timber, rubble and other material which are encountered during the course of work which interferes with work specified to be done.

1.03 SUBMITTALS

- A. Contractor shall submit a detailed demolition plan including methods and means for collecting timber and fill material to prevent entry into the water.
- B. Submit disposal sites for all materials.
- C. Submit disposal slips for each load of material indicating date, time, location, weight and type of material.

PART 2 PRODUCTS

2.01 No materials are to be supplied under this specification.

PART 3 EXECUTION

- 3.01 Bidders shall examine the site and make their own estimates of the types and quantities of demolition, which will be required to fulfill the Contract requirements.
- 3.02 All materials removed during demolition designated for disposal shall become the property of the Contractor unless otherwise noted.
- 3.03 All materials removed during demolition except that which is to be reused shall be disposed of off the site in conformance with all municipal, state and federal regulations.
- During over or in water demolition activities the area of the demolition work will be enclosed with a floating boom approved by the Owner. Materials retained by the boom shall be removed on a daily basis.
- 3.05 Remove and transport debris and rubbish in a manner that will prevent spillage on pavements and streets or adjacent areas. Clean up spillage and debris daily.
- 3.06 Burning debris or materials on site is not permitted

SECTION 02311 ROUND TIMBER PILES

PART 1 - GENERAL

1.01 DESCRIPTION

A. Provide all labor, materials, equipment and supervision necessary to complete work specified in this Section.

1.02 SCOPE OF WORK

A. Scope of work includes, but is not necessarily limited to, furnishing and installing timber piles.

1.03 RFI ATFD WORK

- A. Related work specified elsewhere includes:
 - Bolts under HEAVY TIMBER CONSTRUCTION, SECTION 06130.
 - 2. Pile treatment under TIMBER TREATMENT (CCA), SECTION 06310.

1.04 QUALITY ASSURANCE

- A. Except as noted, work shall conform to the latest editions of the following codes, specifications and standards.
 - American Society for Testing and Materials (ASTM), Specifications: D25 Round Timber Piles.
 - 2. American Institute of Timber Construction (AITC).

1.05 SUBMITTALS

- A. Submit for approval by Owner proposals for following items:
- 1. Driving plan and schedule for installation of piles.
- 2. Method of installation of piles including size and type of pile hammer.
- 3. Templates and falsework to be used for support and layout of piles during driving.
- B. AWPA quality stamp on each new treated pile.
- C. Certification of timber pile species.

1.06 PRODUCT HANDLING

A. Piles shall be handled with care to prevent damage. Damaged piles will be rejected and replaced at no additional cost to the Owner. Piles shall be stored with a space beneath them and situated to prevent being exposed to standing water.

PART 2 PRODUCTS

2.01 MATERIALS

A. End-bearing piles: clean-peeled and treated West coast Douglas Fir or Southern Yellow Pine, meeting ASTM D25-91. Minimum butt circumference measured at 3 feet from the butt end shall be 44 inches.

PART 3 EXECUTION

3.01 DRIVING EQUIPMENT

- A. Pile hammers: Air, steam or diesel-powered, of a type approved by the Owner. The hammer furnished shall have a capacity at least equal to the hammer manufacturer's recommendation for the total weight of pile and character of subsurface material to be encountered. The minimum driving energy of the hammer shall be 6500 foot-pounds. Diesel-powered hammers shall be operated at the rate recommended by the manufacturer throughout the entire driving period. Sufficient pressure shall be maintained at the hammer so that: (1) for double-acting hammer, the number of blows per minute during and at the completion of driving of a pile is equal approximately to that at which the hammer is rated; (2) for single-acting hammer, there is a full upward stroke of the ram; and (3) for differential-type hammer, there is a slight rise of the hammer base during each upward stroke.
- B. Driving helmets and cushion blocks: Use a driving helmet or cap including a cushion block or cap block of a design approved by the Owner between the top of the pile and the ram to prevent impact damage to the pile. The driving helmet or cap and cushion block combination shall be capable of protecting the head of the pile, minimizing energy absorption, and transmitting hammer energy uniformly and consistently during the entire driving period. The driving helmet or cap shall fit snugly on the top of the pile so that the energy transmitted to the pile is uniformly distributed over the entire surface of the pile head. Demonstrate to the Owner that the equipment to be used on the project performs the above functions. The cushion block may be a solid or laminated softwood block with the grain parallel to the pile axis and enclosed in a close-fitting steel housing. The thickness of block shall be suitable for the length of pile to be driven and the character of subsurface material to be encountered. Generally, thicker blocks are required for longer piles and softer subsurface material. Replace cushion block if it has been damaged, split, highly compressed, charred or burned or has become spongy or deteriorated in any manner. Under no circumstances will the use of small wood blocks, wood chips, rope or other material permitting excessive loss of hammer energy be permitted.

3.02 HANDLING

A. Inspect piles in the leads, and where the protective shell or treated wood is impaired, between cutoff and a point which will be not less than 10 feet below the ground, the piles shall be repaired as specified under Timber Treatment unless the pile is damaged to such an extent that it is rejected. Rejected piles will be replaced at no additional cost to the Owner. Support pile laterally during driving, but not unduly restrained from rotation in the leads. Where pile orientation is essential, take special care to maintain the orientation during driving. Take special care in supporting battered piles to prevent excess bending stresses in the pile. When necessary, place collars around the pile head to prevent brooming. Cant hooks shall not be used in handling treated piles. Cut piles by sawing or other means approved by the Owner. Holes for rebar shall be of a size that will ensure a driving fit.

3.03 DRIVING PILES:

- A. Drive pile to Elevation -24 MLLW without interruption.
- B. Tolerances in Driving: Butts shall be within 4 inches of the location indicated. Manipulation of piles to force them into position will not be permitted. Check all piles for heave. Redrive heaved piles to the required elevation. Piles damaged, mislocated, or driven out of alignment shall be replaced or additional piles driven as directed at no additional cost to the Owner.

3.04 INSTALLATION

A. All piles shall be marked at a given distance from the bottom, which will show above the waterline after driving, so that the bottom elevation of each pile and its relation with adjacent piles can be recorded.

3.04 RECORDS

A. A complete and accurate record of each pile shall be furnished by the Contractor. The record shall indicate the pile location, diameter, length, hammer (make and model), number of blows per 6" for the final 36 inches of penetration, all other pertinent information.

SECTION 06130 HEAVY TIMBER CONSTRUCTION

PART 1 GENERAL 1.01 DESCRIPTION

A. Provide all labor, materials, equipment and supervision necessary to complete the specified work in this Section.

1.02 SCOPE OF WORK

- A. Scope of work includes but is not necessarily limited to the following:
 - 1. Construction of retaining wall

1.03 RELATED WORK

- A. Work specified elsewhere:
 - 1. Demolition of existing timber retaining wall under DEMOLITION, SECTION 02110.
 - 2. Installation of new timber piles under ROUND TIMBER PILES, SECTION 02311.
 - 3. Treatment of timber members under TIMBER TREATMENT, SECTION 06310.

1.04 QUALITY ASSURANCE

- A. Except as noted all work shall conform to the latest editions of the following codes, specifications and standards:
 - 1. Southern Pine Inspection Bureau (SPIB)
 - 2. West Coast Lumber Inspection Bureau (WCLIB)
 - 3. Western Wood Products Association (WWPA)
 - 4. National Forest Products Association (NFPA)
 - 5. American Society for Testing and Materials (ASTM)
 - 6. Commonwealth of Massachusetts State Building Code (CMSBC)
 - 7. American Institute of Timber Construction (AITC)

1.05 SUBMITTALS

- A. AWPA quality certification on all treated timber.
- B. Certification of timber species.
- C. Certificate of Compliance for hardware and galvanizing.

1.06 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. All timber shall be stored in stacks such that there is an air space beneath the material and situated to prevent the timber from being exposed to standing water.
- B. The material shall be stored on site in an area that will be designated by the Owner.
- C. Timber shall be handled in an approved manner such that the material will not be damaged.

PART 2 PRODUCTS

2.01 MATERIALS

- A. All timber to be used for sheeting, wales and splice blocks shall be No. 2 Southern Pine as graded by SPIB and with design values per NFPA National Design Specification or the equivalent.
- B. All timber shall be new and dimensional (S4S) as indicated by nominal sizes on contract drawings.

C. Hardware

Bolts and nuts shall conform to ASTM A307. Provide washers, cast-iron ogee, malleable iron, or plate or cut washers where indicated. Provide bolts with washers under nut and head. Hot dip galvanize all hardware.

Zinc Coating
 Galvanize steel specified or indicated by the hot-dip process in accordance with ASTM A123 and ASTM A153 as applicable.

PART 3 EXECUTION 3.01 PREPARATION

A. Prior to installation all demolition affecting the new work shall have been completed.

3.02 INSTALLATION

- A. Coat ends of field cut members, and holes cut or drilled in timber as specified under TIMBER TREATMENT, SECTION 06310.
- B. Joints are to be square, tight and well-fastened with all members assembled in accordance with the Contract Drawings.
- C. Holes for bolts shall be drilled the same size as the bolt after galvanizing. Holes shall be swabbed with 2 coats of sealing compound as specified herein before installing the bolts.
- D. Bolts shall be tightened to provide a solid connection. No more than 1 washer shall be installed under the bolt head or nut. Bolt threads shall project no more than 2" beyond the nut.
- E. All timber shall be cut and fit in such a manner as to have full bearing over the entire contact surface.
- F. Repair and recoat zinc coating which ha been field or shop cut, burned by welding, abraded or otherwise damaged to such an extent as to expose the base metal. Thoroughly clean the damaged area by wire brushing and remove all traces of welding flux and loose or cracked zinc coating prior to painting. Paint cleaned area with two coats of zinc oxide-zinc dust paint.

- 5. **Person, Department, or Committee, if any, to whom CONTRACTOR reports** (§ 2.2): Dave Fronzuto, Harbor Master
- 6. **Term of Agreement** (§3.1): Completion of Work.
- 7. **Completion Date** (§3.2): April 1, 2007
- 8. Additional Insurance Coverage (§6.2(e)):

EXHIBIT B

PAYMENTS

- 1. <u>Lump Sum Method</u>
 - a. **Maximum Project Amount**:
 - b. **Payment Increments**:
 - 5% of total contract upon execution of contract, submission of CONTRACTOR'S invoice, and approval of invoice by the TOWN
 - 35% of total contract upon completion of 50% of the work as approved by the TOWN, submission of CONTRACTOR'S invoice, and approval of invoice by the TOWN
 - 60% of total contract upon completion of all work, acceptance of the work by the TOWN, submission of CONTRACTOR'S invoice, and approval of invoice by the TOWN
 - c. Reimbursable Expenses (if any): None.

BIDDER'S CHECKLIST

Red	quired for bid submittals:
0	Bid Price Form
0	Certificate of Good Faith
0	Tax compliance certificate
0	Reference list
0	Signature page from Town of Nantucket contract agreement
0	Bid deposit of 5% of bid amount